Trust Networks – Private Bandwidth

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Internet & Ubiquity is going hand in hand, applications are growing far beyond the original internet intended design. Albeit, connectivity & switching speeds have enabled close to online communication, BUT Privacy and Security suffers in big way.

Trust Gateway (GW): The vision is to offer a small redefinition based on the nature of the application. E.g: Offer a secured cover like 'Ozone' to the eTransaction network for an ePayment application.

Executive Summary: The vision is to define an Eco solution with in mobile data communication network to offer a complete 'Secured Private Bandwidth' to clients during eTransaction. The Eco has a look and feel of internet and can clearly co-exist seamlessly with today's internet. It is also envisaged to build such Eco using existing internet elements. Further, the new Eco complies with current Internet business (data) plans of Mobile ISPs (no new governmental approvals). This paradigm and privacy benefits BFIs and their underwriters.

The Problem: Hitherto, BFI servers and their clients do own (or buy) their BW and connect each other on public internet during eTransactions. Hence has less control to exercise any privacy, the current solution in vogue uses secured layers like SSL and IPSec to offer hackers a resistance to safe guard clients' valuable data, while connectivity is still on public internet. This has led to huge cash bleed on daily basis and reduced the client's confidence.

The Paradigm now, is to look for privacy & security by way of session specific secured private connectivity, which offers private bandwidth to such clients while on eTransaction (more like two wire connectivity) & connects only to an eServer. Is it really a possibility in this Internet world? Is it going to be as ubiquitous as Internet? Can it fit into today's ISPs business programs? The answer is one big YES to all the above three questions.

The Cornerstone: A review on typical login behavior that several millions of clients do log into a ONE particular web site or in practice ONE web server (that is their bank?). If such a use case is analyzed, it is possible to connect the banking server and their clients via a central (Trust GW)

server co-existing within ISP to offer private connectivity. Clients are now on a session specific Private network & bandwidth to reach their banking server, though call initiated on Internet.

The Eco System: Let us quickly analyze what it takes to build

1. Mobile ISP infrastructure to divert BFI data calls to an alternate private channel.
2. Build new ECO using current internet infrastructure - in terms of HW / SW.
3. No physical changes at clients' end & minimal changes at banking IP infrastructure.
4. Can offer clear hack resistance – No DNS, Known routing, BW to connect only to BFI
5. The new Eco is Governed and bounded as opposed to internet

Deployment of such Eco: It is opined to architect the new Eco using current internet HW elements under new SW governance. And deployment is just the same as internet and service provisioning from mobile ISPs will also remain the same. The ISP's business & revenues will be an extension to current data plans. Year on year Internet enhancements will amortize Trust development & deployments!